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NOTICE OF ALLOWANCE AND FEE(S) DUE

22850 7590 01/24/2011

OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, L.L.P.

1940 DUKE STREET ALEXANDRIA, VA 22314 EXAMINER
VELASOUEZ, VANESSA T

ART UNIT PAPER NUMBER

1733

DATE MAILED: 01/24/2011

 APPELCATION NO.
 FILINO DATE
 FIRST NAMED INVENTOR
 ATTORNEY DOCKET NO.
 CONFRINATION NO.

 10/522,779
 02/01/2005
 Shinji Sakashita
 265060US0PCT
 1756

TITLE OF INVENTION: TITANIUM ALLOYS EXCELLENT IN HYDROGEN ABSORPTION-RESISTANCE

APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(8) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	04/25/2011

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FIEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This appropriate. All further indicated unless correcte maintenance fee notificat	form should be used to correspondence including d below or directed off tions.	for transmitting the ng the Patent, advan- nerwise in Block 1,	ISSUE FEE and PUBI ace orders and notificati by (a) specifying a nev	on of n	ON FEE (if require naintenance fees will pondence address; a	ed). B II be n ind/or	locks 1 through 5 sh nailed to the current (b) indicating a sepa	ould be completed where correspondence address as rate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note Fee(pape have	Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.			
²²⁸⁵⁰ OBLON, SPIV 1940 DUKE STI ALEXANDRIA.	7590 01/24 AK, MCCLELL/ REET , VA 22314		& NEUSTADT, L					
								(Depositor's name)
								(Signature)
				L				(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INV	ENTOR	1	ATTOF	RNEY DOCKET NO.	CONFIRMATION NO.
10/522,779	02/01/2005	-	Shinji Sakash	ita		26	55060US0PCT	1756
TITLE OF INVENTION								
APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE		E DUE	PREV. PAID ISSUE	FEE	TOTAL FEE(8) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300		\$0 \$1810		04/25/2011	
EXAM	INER	ART UNIT	CLASS-SUBCL/	ASS				
VELASQUEZ,	VELASQUEZ, VANESSA T		428-629000)				
"Fee Address" indi PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A	ondence address (or Cha 3/122) attached. ication (or "Fee Address 2 or more recent) attach ND RESIDENCE DAT. ess an assignce is ident h in 37 CFR 3.11. Comp	inge of Corresponde " Indication form and. Use of a Custon A TO BE PRINTED	nce or agents OR, a (2) the name of registered attor; 2 registered pat listed, no name ON THE PATENT (pringnee data will appear of s NOT a substitute for fi	ternative a single as ingle or a sent attoo will be not or type not the poling an a sent attoo and the poling an a sent are a	e firm (having as a n gent) and the names meys or agents. If no printed.	nembe s of up o name	er a 2	cument has been filed for
Please check the appropri	iate assignee category or	categories (will not	be printed on the patent): u	Individual 🚨 Corp	poratio	on or other private gro	up entity Government
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	s SMALL ENTITY state	as. See 37 CFR 1.27					TTY status. Sec 37 CF	
interest as shown by the r	d Publication Fee (if req records of the United Sta	uired) will not be ac ites Patent and Trade	cepted from anyone othe mark Office.	r than t	he applicant; a regist	ered a	ttorney or agent; or th	e assignee or other party in
Authorized Signature					Date			
Typed or printed name					Registration No			
This collection of inform an application. Confident submitting the completed this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	ation is required by 37 C itality is governed by 35 I application form to the ons for reducing this bu irginia 22313-1450. DO 13-1450.	CFR 1.311. The infor U.S.C. 122 and 37 USPTO. Time will rden, should be sent O NOT SEND FEES	rmation is required to ob CFR 1.14. This collectic I vary depending upon the to the Chief Information OR COMPLETED FOL	tain or r on is est ne indiv n Office RMS TO	etain a benefit by the imated to take 12 mi idual case. Any com r, U.S. Patent and Ti D THIS ADDRESS.	e publi inutes iments radem SEND	c which is to file (and to complete, including on the amount of tin ark Office, U.S. Depa TO: Commissioner f	by the USPTO to process) g gathering, preparing, and the you require to complete rtment of Commerce, P.O. or Patents, P.O. Box 1450,

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.			
10/522,779	02/01/2005 Shinji Sakashita		265060US0PCT	1756			
22850 7	2850 7590 01/24/2011			EXAMINER			
OBLON, SPIVA	K, MCCLELLAND	VELASQUEZ, VANESSA T					
1940 DUKE STR			ART UNIT	PAPER NUMBER			
ALEXANDRIA, VA 22314			1733				
			DATE MAILED: 01/24/201	1			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 527 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 527 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)
10/522,779	SAKASHITA ET AL.
Examiner	Art Unit
Vanassa Valassusz	1799

The MAILING DATE of this communication appears on the cover sheet with the correspondence address
All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included
herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS
NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative
of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

- This communication is responsive to 11/11/2010.
- The allowed claim(s) is/are 1,2,7-9,11-13,16 and 19.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some* c) None of the:
 - 1.

 Certified copies of the priority documents have been received.
 - 2. Certified copies of the priority documents have been received in Application No.
 - Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date ____.

 (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. Notice of References Cited (PTO-892)
- 2. Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3. Information Disclosure Statements (PTO/SB/08),
- 5. ☐ Notice of Informal Patent Application
 6. ☐ Interview Summary (PTO-413),
 - Paper No./Mail Date _____.
- 7. Examiner's Amendment/Comment
- 8. 🛮 Examiner's Statement of Reasons for Allowance

9. Other _____

Primary Examiner, Art Unit 1733

/Vanessa Velasquez/ Examiner, Art Unit 1733 Art Unit: 1733

DETAILED ACTION

REASONS FOR ALLOWANCE

Claims 1, 2, 7-9, 11-13, 16, and 19 are allowed.

The following is an examiner's statement of reasons for allowance: The prior art of record neither fairly teach nor suggest a titanium material containing an intervening Al concentrated layer between a Ti-Al base alloy and an oxide, wherein the intervening Al concentrated layer contains Al in an amount of 0.8-6% and the Al in the intervening Al concentrated layer is 0.3% or more than the Al in the Ti-Al base alloy. Furthermore, the prior art do not teach that the Ti-Al base alloy adjacent to the concentrated layer contains 0.50-3.0 mass% Al and that the oxide layer, which is also adjacent to the concentrated layer, is 50% or more crystalline in structure and 1.0-100 nm thick.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vanessa Velasquez whose telephone number is 571-270-3587. The examiner can normally be reached on Monday-Friday 9:00 AM-6:00 PM ET.

Art Unit: 1733

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King, can be reached at 571-272-1244. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Vanessa Velasquez/ Examiner, Art Unit 1733 /Scott Kastler/ Primary Examiner, Art Unit 1733